

Discussion summary



- **Goal: make tracking more operational**
 - A small-scale space debris tracking opportunity open for all will be proposed by Graz, with ESA/ExpCen support to define relevant targets close to the evening terminator; data exchange via SDSG server hosted in Graz; a multi-static configuration is possible
 - Expected result is a better understanding on what is possible, and that more stations learn about their capabilities, a broad participation in the experiment would be desirable.
 - Analysis and OD should be possible for all interested parties. ESA/ExpCen confirmed as ready by Fall.
- **Q: How do SLR tracking experiments relate to radar (microwave) tracking?**
 - Laser will supplement radar data for selected cases and limited to specific events (close approaches, contingencies, re-entries, ...)
 - The interest of s/c operators is in a fast and robust improvement of the orbit information and related uncertainties, and as well in attitude state and motion
- **Q: How many observations are needed, how long in advance do we know?**
 - The load on stations is limited to specific cases, all at discretion of stations; the forecast horizon: few days
- **Q: How do we address safety concerns?**
 - As for other missions. In the US there is a Laser Clearinghouse. Also other stations/ExpCen should check what is “behind” the target. Targets should not have optical elements!
- **Q: Are angular measurements interesting?** → Yes! Also the ranges with m-precision are already sufficient.

